

**PRIOR TO OGC -**

**FILE NOTATIONS**

Entered in NID File .....  
Location Map Pinned .....  
Card Indexed ..✓.....

Checked by Chief .....  
Approval Letter .....  
Disapproval Letter .....

**COMPLETION DATA:**

Date Well Completed .....

Location Inspected .....

OW..... WW..... TA.....

Bond released

GW..... OS..... PA.✓.....

State or Fee Land .....

**LOGS FILED**

Driller's Log.....

Electric Logs (No.) .....

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

11-290  
JH

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office **Salt Lake City**  
Lease No. **065886**  
Unit \_\_\_\_\_  
Lease: **Havenor**

**SUNDRY NOTICES AND REPORTS ON WELLS**

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 28, 1948

Well No. **1** is located **1980** ft. from **N** line and **660** ft. from **E** line of sec. **33**  
**NWSW Sec. 33** **21S** **21E** **Salt Lake**  
 (4 Sec. and Sec. No.) (Twp) (Range) (Meridian)  
**Thompson** **Grand** **Utah**  
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4785** ft. (Est.)

**DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

It is proposed that a well be drilled, with rotary tools, at the above designated location, to test the productive possibilities of the sub-surface formations down to the Paradox which is expected to be found at about 10,000' below surface.

The proposed casing program is as follows:

Set 13-3/8" OD new casing at approximately 400' KB and cement bottom to top.

Set and adequately cement 9-5/8" OD new casing at approximately 3500', if required.

Set and adequately cement an engineered string of 5 1/2" OD new casing for production string, if production is encountered.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **PACIFIC WESTERN OIL CORPORATION**

Address **311 So. Center St., Casper, Wyo.**

By *(Signature)* **J. H. Deffeyes**

Title **Division Superintendent**

(SEE ATTACHED RIDER FOR APPROVAL)

Final

CONDITIONS OF APPROVAL

1. The lessee or operator shall mark the derrick or well in a conspicuous place with the name of the operator, well number, the land office and serial number of the lease, and location of the well and shall take all necessary precautions to preserve these markings.
2. A conductor or surface string of casing shall be run and cemented from bottom to surface unless other procedure is expressly authorized by this approval. The conductor or surface string shall be of sufficient weight and length and have installed thereon the proper and necessary high pressure fittings and equipment to keep the well under control in case an unexpected flow of gas, oil or water is encountered.
3. All showings of oil or gas are to be adequately tested for their commercial possibilities. All showings shall be properly protected by mud, cement, or casing so that each showing will be confined to its original stratum. Necessary precautions shall be taken to prevent waste or damage to other minerals drilled through and the U. S. Geological Survey, upon request, shall be furnished with carefully taken samples of such minerals as coal, potash and salt.
4. Lessee's Monthly Report of Operations (Form 9-329) shall be filed in duplicate with the office of the U. S. Geological Survey, P. O. Box 400, Casper, Wyoming, not later than the sixth of the succeeding month. The report should show for this well any change of status occurring within the particular month such as date drilling commenced, suspended, resumed or completed, total depth as of the end of the month, and if shut down the reason therefor.
5. Two copies of the log of this well on Form 9-330, or other acceptable form and ~~when available~~ two copies of all electrical logs, directional, diameter and temperature surveys of the hole shall be filed with the district engineer within 15 days after such information is received by operator or completion of the well whichever is earlier.
6. The District Engineer, C. A. Hauptman, 306 Federal Building, Salt Lake City 1, Utah, shall be notified on Form 9-331a in triplicate giving thereon all necessary details of the proposed operation or test for proper consideration and action sufficiently in advance of making casing or formation tests, shooting or acidizing, running or cementing casing, other than the surface or conductor string, to permit approval of the notice prior to date or proposed work.

Approved JUN 2 1942

*C. A. Hauptman*  
District Engineer

THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corporation Well No. 1  
(Salt Lake 065886), Ref. No. 1 APR 1949  
X  
STATUS: Drg - T.D. 10,967', Penn (?) (Co. reports,  
Visited 4-10-49)  
REMARKS: Operations suspended 4-15-49. Waiting on new  
rig. 7-7/8" hole.

THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corporation Well No. 1  
(Salt Lake 065886), Ref. No. 1 MAY 1949  
X  
STATUS: Drg - T.D. 11,174', Penn. (?) (Co. reports,  
visited 5-25-49)  
REMARKS: Drilling resumed 5-6-49 with new rig. Had several  
fishing jobs during month. Reaming 9-5/8" hole to 10-5/8".

THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corporation Well No. 1  
(Salt Lake 065886), Ref. No. 1  
J  
STATUS: Drg - T.D. 11,713' (Penn.?) (Visited 6-23-49)  
REMARKS: 1484' 8-5/8" cc w/75 sax. Drilling ahead.

THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corporation Well No. 1  
(Salt Lake 065886), Ref. No. 1  
Y  
STATUS: Drg - T.D. 13,031', Paradox (Co. reports)  
REMARKS: Drilling in salt, top encountered at  
12,206'.

THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Equity Oil Company\* Well No. 1 (Salt Lake  
065886), Ref. No. 1  
J  
STATUS: Abd - T.D. 13,764', Paradox (Co. reports  
Visited 8-19-49)  
REMARKS: DRY HOLE OR FAILURE. No indications of oil  
or gas in commercial quantities. Received verbal  
AUG permission to P&A. \*Correction.

POOR COPY

LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Salt Lake City**  
SERIAL NUMBER **065886**  
LEASE OR PERMIT TO PROSPECT **Harvar**  
Unit: **Thompson**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

ORIGINAL FORWARDED TO CACDER

# LOG OF OIL OR GAS WELL

Company PACIFIC WESTERN OIL CORPORATION Address 311 So. Center St., Casper, Wyo.  
Lessor or Tract \_\_\_\_\_ Field Thompson State Utah  
Well No. 1 Sec. 33 T. 21S R. 21E Meridian Salt Lake County Grand  
Location 1980 ft. { N. } of 8 Line and 660 ft. { E. } of W Line of \_\_\_\_\_ Sec. 33 Elevation 4798  
{ Sx } { Sx }  
The information given herewith is a complete and correct statement of the facts as the same appear from the records of the State of Utah.

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Original Signed  
Signed \_\_\_\_\_ J. A. ~~DEFFEYES~~  
Title J. A. Deffeyes  
Division Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling June 28 19 48 Finished drilling July 22 19 48

## OIL OR GAS SANDS OR ZONES

(Denote gas by  $u$ )

(Dewar gas only)

No. 1, from ..... to .....	No. 4, from ..... to .....
No. 2, from ..... to .....	No. 5, from ..... to .....
No. 3, from ..... to .....	No. 6, from ..... to .....

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
11-3/4	47	SR		324					Surface Intermediate Bottom hole
8-5/8	32	SR		1644					

# MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
12-3/4	324	175	Halliburton		
8-5/8	1684	175	Halliburton		

## PLUGS AND ADAPTERS

Pegs and Adapters		
Heaving plug—Material	Length	Depth set
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
49	50	51
52	53	54
55	56	57
58	59	60
61	62	63
64	65	66
67	68	69
70	71	72
73	74	75
76	77	78
79	80	81
82	83	84
85	86	87
88	89	90
91	92	93
94	95	96
97	98	99
100	101	102
103	104	105
106	107	108
109	110	111
112	113	114
115	116	117
118	119	120
121	122	123
124	125	126
127	128	129
130	131	132
133	134	135
136	137	138
139	140	141
142	143	144
145	146	147
148	149	150
151	152	153
154	155	156
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217	218	219
220	221	222
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226	227	228
229	230	231
232	233	234
235	236	237
238	239	240
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247	248	249
250	251	252
253	254	255
256	257	258
259	260	261
262	263	264
265	266	267
268	269	270
271	272	273
274	275	276
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316	317	318
319	320	321
322	323	324
325	326	327
328	329	330
331	332	333
334	335	336
337	338	339
340	341	342
343	344	345
346	347	348
349	350	351
352	353	354
355	356	357
358	359	360
361	362	363
364	365	



# FORMATION RECORD-Continued

FROM	TO	TOTAL FEET	FORMATION
HISTORY OF OIL OR GAS WELL			
Date	Work Done		
1948			
June			
28	Spudded		
July			
1	Ran 11-3/4" OD casing and cemented at 324' with 175 sacks. Work done by Halliburton.		
4	Drilled out cement and started making new 8-3/4" hole.		
10	DST #1 - 1145-1199, open 45 minutes, recovered 830' fresh water, slightly gas cut. Shut in pressure 350#.		
22	DST #2 - 1966-1990, open 37 minutes, recovered 1360' water, slightly brackish and gas cut.		
Oct.			
6	Reached 6340'. Started tearing out light rotary.		
Nov.			
1	Finished moving in rotary, circulated to bottom and started making new hole.		
Dec.			
4	Attempted DST #3 with bottom of hole 7730'. Packer failed to hold.		
6	DST #4 - 7692-7730, open 45 minutes, light steady blow, recovered 1270' slightly gas cut water with bitter alkaline taste.		
22	Stuck drill pipe in key seat.		
27	Unable to clean up fishing job--started reaming to 9-7/8" hole.		
29	Reamed 9-7/8" hole to 802'.		
31	Cleaned up fishing job.		
1949			
Jan.			
1	Started drilling ahead.		
10	Reached 8645', twisted off and left bit, sub, and drill collar in hole.		
13	Cleaned up fishing job and started drilling ahead.		
29	Drilled to 9120'. Stuck pipe in key seat.		
30	Got all pipe and drill collars out of hole but mud system frozen.		
Feb.			
1	Got back on bottom and drilling ahead.		
10	Twisted off--left 51 stands and five drill collars in hole.		
Mar.			
1	Cleaned up fishing job.		
2	Resumed drilling operations.		
April			
14	Reached depth of 10967'--started tearing out rotary.		
May			
6	Finished rigging up rotary and started making new hole.		
13	Left 3 cones in hole at 11173'.		
20	Unable to recover fish, having key seat trouble, started reaming to 10-5/8".		
23	While reaming at 1677' lost 2 drill collars and 30 joints in hole.		
29	Cleaned up secondary fishing job.		
30	Ran 8-5/8" OD, 324, casing and cemented at 1684' with 75 sacks--work done by Halliburton.		
31	Drilled out cement plug and resumed fishing for lost cones.		
June			
7	Finished milling up cones, repaired rig and started drilling ahead.		
23	Attempted DST with hole bottomed at 11585'. Made two runs but tool failed both times.		
24	Conditioned mud and made one foot of new hole.		
25	Attempted DST with hole bottomed at 11586'--packer failed to hold.		
26	DST, 11436-11586, open one hour, recovered 180' of drilling mud.		
July			
22	Reached depth of 12022'--started tearing out rotary.		

CONFIDENTIAL) THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corp. Well No. 1 (Salt  
Lake 065886), Ref. No. 1

X STATUS: Drg - T.D. 2548', Kayenta

REMARKS: NEW DRILLING WELL. Drilling commenced 7-3-48.

Surface, Mancos shale. Objective, test of formations  
down to Paradox at approx. 11,000'.  
from top to bottom. Tops:

Perron	865'
LaBata	1147'
Morrison	1200'
Salt Wash Member	1699'
Summerville	1936'
Entrada	1969'
Nava jo	2225'
Kayenta	2469'

JUL

Drill stem test 1145-99'. Recovered 830' fresh water,  
slightly gas-cut. Drill stem test 1966-99'. Tool open  
37 mins. Recovered 1360' water, slightly brackish and  
gas-cut. Drill stem test 2228-2323'. Recovered 490'  
gas-cut drilling fluid. Drilling ahead in shaly sandstone

CONFIDENTIAL) THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corp. Well No. 1 (Salt  
Lake 065886), Ref. No. 1

X STATUS: Drg - T.D. 4606', Cutler AUG 1948

REMARKS: Top of Chinle 3386', Moenkopi 3616', Cutler 3943'

CONFIDENTIAL) THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corp. Well No. 1 (Salt  
Lake 065886), Ref. No. 1

X STATUS: Drg - T.D. 5960', Cutler 1948

REMARKS: Drilling ahead in red micaceous shale.

33-21S-21E THOMPSON (UNIT) - Grand County  
C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corp. Well No. 1  
(Salt Lake 065886), Ref. No. 1

X STATUS: Drg - T.D. 6340', Cutler OCT 1948 (Co. reports  
Visited 10-22-48)

REMARKS: HL ran to 6330'. Moving in heavier rotary  
equipment.



THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corp. Well No. 1  
(Salt Lake 065886), Ref. No. 1 NOV 1948

STATUS: Drg - T.D. 7492' (Visited 11-22 & 23-48)

REMARKS: Drilling ahead.

CONFIDENTIAL, THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corp. Well No. 1  
(Salt Lake 065886), Ref. No. 1 DEC 1948

STATUS: Drg - T.D. 8327', Cutler (Co. reports, visited 12-15-48)

REMARKS: D.S.T. 7700'. Recovered 1270' water with approx.

19% soluble potash salts. Fishing for stuck drill pipe.

THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corporation Well No. 1  
(Salt Lake 065886), Ref. No. 1 JAN 1949

STATUS: Drg - T.D. 9048' (Co. reports)

REMARKS: Recovered fish. Cored 8753-58'. Recovered 4 $\frac{1}{2}$ ' shale and sandstone. No oil or gas shows.

THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corporation Well No. 1  
(Salt Lake 065886), Ref. No. 1 FEB 1949

STATUS: Drg - T.D. 9312', Cutler (Visited 2-24-49)

REMARKS: 2-week's fishing for 9 drill collars on bottom—remainder of 4000' of dropped drill pipe.

THOMPSON (UNIT) - Grand County  
33-21S-21E C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corporation Well No. 1  
(Salt Lake 065886), Ref. No. 1 MAR 1949

STATUS: Drg - T.D. 10,032', Penn. (?) (Co. reports)

REMARKS: Velocity survey and M. run. Interpretation not yet available. Contemplate drilling an additional 1000' to 2000'.

33-21S-21E THOMPSON (UNIT) - Grand County  
C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corporation\* Well No. 1  
(Salt Lake 065886), Ref. No. 1

STATUS: Abd - T.D. 13,767', Paradox (Visited 9-28-49)

REMARKS: Cement plug 13,729', bottom 8-5/8"

casing. 5 sax at surface. Marker erected. Hole left  
filled with 11# mud. Location not yet cleaned up.

\*Correction.

33-21S-21E THOMPSON (UNIT) - Grand County  
C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corporation Well No. 1  
(Salt Lake 065886), Ref. No. 1

STATUS: Abd - T.D. 13,767', Paradox

REMARKS: Waiting on inspection.

33-21S-21E THOMPSON (UNIT) - Grand County  
C NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Pacific Western Oil Corp. Well No. 1  
(Salt Lake 065886), Ref. No. 1 NOV 1949

STATUS: P&A - T.D. 13,767', Paradox (Visited 11-30-49)

REMARKS: Abandonment approved 11-30-49.

(SUBMIT IN TRIPLICATE)

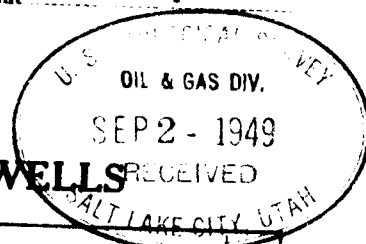
Land Office Salt Lake City

Lease No. 065886

Unit Thompson

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

*Copy to Pacific Western 12-5-49*  
*ORIGINAL FOR R 12-5-49*



SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO ABANDON WELL.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Well No. 1 is located 1980 ft. from [N] line and 1000 ft. from [E] line of/sec. 33  
NW SW Sec. 33 21 21  
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Thompson Unit Grand County Utah  
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Thompson Unit well #1 was plugged with thirty sacks of cement from 1629' to 1729' (surface casing - 8-5/8", was set at 1684'). An additional plug of five sacks of cement was placed in the top of the surface pipe, and a 4" pipe marker was set in this plug, extending 4' above the ground surface. Mud weighing 10.7 lbs. per gallon filled the entire hole above and below the bottom plug to total depth of 13,764'. These plugs were placed in accordance with verbal agreement and consent of Mr. J. J. Hauptmann.

Inspected by District Engineer on November 30, 1949, and found to be satisfactory.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Equity Oil Company

Address Utah Oil Building

Salt Lake City

Approved NOV 30 1949  
J. J. Hauptmann  
District Engineer

By J. J. Hauptmann

Title Consulting Engineer